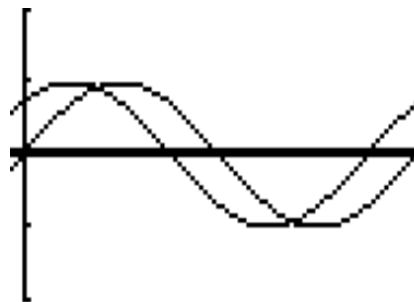


## Vocab

**Amplitude:** The distance to a high or low point from the line of symmetry.

**Period:** The frequency. How many degrees it takes to get from the starting point through an entire rotation.

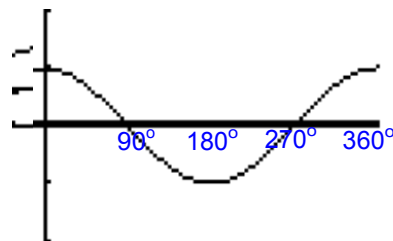
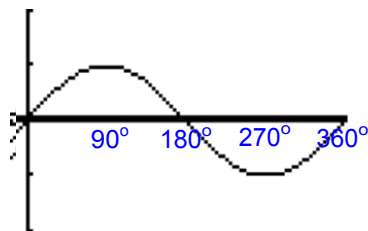
**Shift:** The distance a graph is moved horizontally or vertically.



## Graphing Trig Functions: Lable on HW

Sine

Cosine



$$y = A \sin(B\theta - C) + k \quad y = A \cos(B\theta - C) + k$$

**Amplitude**  $\frac{1}{2}(\text{max} - \text{min})$

**Period**  $2\pi$  (frequency) or  $360/B$

**Shift** C: shifts the whole graph left and right  
k: vertical phase shift